

Fig. 1

Fig. 2

Name	DNAzyme Sequenz
hgd1	5'-TCGGTCAGAggctagctacaacgaTGCGTTGCT-3'
hgd2	5'-GGCGTACGAggctagctacaacgaCTGCTCGGT-3'
hgd3	5'-GGCGGCGTAggctagctacaacgaGACCTGCTC-3'
hgd4	5'-CTCGGGTCAggctagctacaacgaCTGGGTAGC-3'
hgd5	5'-TCCTCTGCAggctagctacaacgaCGGGGTCCT-3'
hgd6	5'-ACTCTGCAAggctagctacaacgaTCTGCGAGC-3'
hgd7	5'-GGGCGACGAggctagctacaacgaTCTGCAATT-3'
hgd8	5'-AAGGGGCGAggctagctacaacgaGACTCTGCA-3'
hgd9	5'-AAAACGGGAggctagctacaacgaCAGGTTGTA-3'
hgd10	5'-AGAATAAAAggctagctacaacgaGGGACCAGG-3'
hgd11	5'-ATGGCAGAAggctagctacaacgaAAAACGGGA-3'
hgd12	5'-AACTGGGTAgggtaggtaggtaggtaggaaaaaggaaaaagggaaaa
hgd13	5'-AACTGGGTAggctagctacaacgaGGCAGAATA-3'
hgd14	5'-ATCCAAAAAggctagctacaacgaTGGGTATGG-3' 5'-AGGGGAAGAgggtaggtaggtaggtaggtaggtaggtaggtaggtagg
hgd15	5'-AGGGGAAGAggctagctacaacgaAAAATCCA-3'
hgd16	5'-TTTTAAAAAggctagctacaacgaTATCTTGGA-3'
hgd17	5'-GTGGGGGAggctagctacaacgaGGAAGGCT-3'
hgd18	5'-GTTGAATGAGGCtagctacaacgaTTGCTTTCG-3'
hgd19	5'-GTCGTTGAAggctagctacaacgaGATTTGCTT-3'
hgd20	5'-GGCCCGGAAggctagctacaacgaCCGCGCGCG-3'
hgd21	5'-TCACCTCCAggetagetacaacgaGGCCTCGGC-3'
hgd22	5'-CCGCCGTCAggctagctacaacgaCTCCATGGC-3'
hgd23	5'-GGTGGCTCAggctagctacaacgaCCAGCGCGG-3'
hgd24	5'-CGTTGAGCAggctagctacaacgaGGCGGGGTG-3'
hgd25	5'-CCGCGTCCAggctagctacaacgaGTAGGAGTG-3'
hgd26	5'-CAGCGGGTAGGCtaGctaCaacgaTGCGCCGCG-3'
hgd27	5'-GCACATCCAggctagctacaacgaCTCCTCCGG-3'
hgd28	5'-AAAAGCACAgctagctacaacgaCCACCTCCT-3'
hgd29	5'-TAAAAAGCAggctagctacaacgaATCCACCTC-3' 5'-GACCGTCGAgggtaggtaggtaggtaggtaggtaggtaggtaggtagg
hgd30	5'-GACCGTCGAggctagctacaacgaGTTAAAAAG-3' 5'-TTGCCTTGAggctaggtaggtaggtaggtaggtaggtaggtaggtaggt
hgd31	5'-TTGCCTTGAggctagctacaacgaCGTCGATGT-3' 5'-AGGGCGGAgggtaggtaggtaggtaggtaggtaggtaggtaggtagg
hgd32	5'-AGGGCGGAggctagctacaacgaGTGGTTGCC-3' 5'-TGGCCCTGAgggtaggtagatagataggataggtaggtaggtaggtag
hgd33	5'-TGGCCCTGAggctagctacaacgaCGAGTTTCC-3'
hgd34	5'-ACCTCTGCAggctagctacaacgaCGTGGCCCT-3'
hgd35	5'-CGGAGGGTAggctagctacaacgaCTCTGCACC-3'
hgd36	5'-GGCGCACAggctagctacaacgaCTGGCTCCC-3'
hgd37	5'-CGGGCGCAggctagctacaacgaACCTGGCTC-3'
hgd38	5'-AGGGATCCAggctagctacaacgaGAAGCAGAG-3'
hgd39	5'-GGGTAGGGAggctagctacaacgaCCATGAAGC-3'
hgd40	5'-GGGCTGAGAggctagctacaacgaTCCAGGGGG-3'
hgd41	5'-GTGGATGGAggctagctacaacgaGTCTTGGAG-3'
hgd42	5'-CGTGGTGGAggctagctacaacgaGGACGTCTT-3'
hgd43	5'-GGGGGTAGAggctagctacaacgaGGAGAGGGG-3'
hgd44	J -GGAGGAGGAGGCtagctagagagagagagagagagagagagagagagagaga
hgd45	J -GCCCCCGAggctagctacaacgalaccacgacgacgacgacgacgacgacgacgacgacgacga
hgd45	J -CCGGGAGAGGCtagctacaacgaCgCCggggggaaa
hgd47	J -GGACAGCGAGGCTagctagagggggggggggggggggggggggggggggggg
hgd48	J - I GGGGTGGAGGCtagctagacgaacgaacgaacgaacgaacgaac
hgd49	J CIIGAGGCAGGCtagaccaaccaaccaaccaaccaaccaaccaaccaaccaa
	5'-CACCTGGTAggctagctacaacgaTTGAGGCAC-3'

	Name	DNAzyme Sequenz
	hgd50	5'-GCAGGGGCAggctagctacaacgaCTCCTACTT_3'
	hgd51	5 -CCAGCTTCAggctagctacaacgagcTcTcTcccc_3!
	hgd52	5 -GIGGGACGAggctagctacaacgaTCCAcCTTC_3!
¥	hgd53	5 -GGAGTGGGAggctagctacaacgaGACTCCACC_3!
	hgd54	S -AIGCIGCCAggctagctacaaccacccicrocc 3!
	hgd55	5 -GGGCGGTCAggctagctacaacgagcTgcclacc_3!
	hgd56	5 -GAGGCTCCAggctagctacaacgaCCAggcgcgc_3!
	hgd57	J -GIGGGICGAqqctaqctacaacqaGAGGAGGCm_2!
	hgd58	5 -AGGTGGTGAggctagctacaacgaggggracarg_3!
	hgd59	5 -ACTCGGCAggctagctacaacgaggaggaggaggaggaggaggaggaggaggagga
	hgd60	5 -GGAGCTGTAggctagctacaaccaarccarccaccaac
	hgd61	5 -GGACTTGCAggctagctacaacgaCcclacccclac
	hgd62	o -GGCCTGGAggctagctagaaggaTTGCATCCC_3'
	hgd63	5 - IGTGCTGGAggctagctacaacgaCGCCCCTTC_3!
	hgd64	5 -GTTCACACAggctagctacaacgaTcCcTcccTcccTc.3!
	hgd65	5 -CAGITCACAggetagetacaacgaAcTcccTcc_3!
	hgd66	-5 -CACAGTTCAggctagctacaacgaACACTCCCT_3!
	hgd67	5 -GITGCCCCAqqctaqctacaacqaAGTTCACAC_3!
	hgd68	5 -redecedecagetagetacaacgaAgreecerc_3!
	hgd69	3 -cccGTGCCAggetagetacaacgaCTCCCCCC_3!
	hgd70	5'-GGCGTTGCAggctagctacaacgaAGGTAGTGT-3'
	•	

Fig. 4

Multiple Sequence Alignments GATA-3

Sequenz_1 Sequenz_2	****		
Sequenz_3		GGCGCCGTCTTGATAC TTTCAGAAAGAATGCATTCCCTGTAAAAAAAAAA	60
Sequenz_1 Sequenz_2	61 ****	GAGAGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGGGAGA	
Sequenz_3	61	TGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGA	120
Sequenz_1 Sequenz_2	120 ****	AGCAACGCAATCTGAC CGAGCAGGTCGTACGCCGCCGCCTCCTCCTCCTCTCTCTC	
Sequenz_3	121	AGCAACGCAATCTGAC CGAGCAGGTCGTACGCCGCCGCCTCCTCCTCCTCTCTCTC	**** 180
Sequenz_1 Sequenz_2	180 ***	GCTACCCAGGTGACCC GAGGAGGGACTCCGCCTCCGAGCGGCTGAGGACCCCGGTGCAGA	
Sequenz_3	181	GCTACCCAGGTGACCC GAGGAGGGACTCCGCCTCCGAGCGGCTGAGGACCCCGGTGCAGA	. **** 240
Sequenz_1 Sequenz_2	240 ****	GGAGCCTGGCTCGCAG AATTGCAGAGTCGTCGCCCCTTTTTACAACCTGGTCCCGTTTTA	299
Sequenz_3	241	GGAGCCTGGCTCGCAG AATTGCAGAGTCGTCGCCCCTTTTTACAACCTGGTCCCGTTTTA	**** 300
Sequenz_1 Sequenz_2	300 ****	TTCTGCC TACCCAGT TTTTGGATTTTTGTCTTCCCCTTCTTCTCTTTTGCTAAACGACCC	359
Sequenz_3	301	TTCTGCCTACCCAGT TTTTGGATTTTTGTCTTCCCCTTCTTCTCTTTGCTAAACGACCC	
Sequenz_1	360	CTCCAAGATAATTTTT AAAAAACCTTCTCTTTTCCTCACCTTTTCCTTTTCCTTTTCCTTTTTCCTTTTCCTTTTTT	419
Sequenz_2	1		14
Sequenz_3	361	CICCAAGAIAAITITTAAAAAACCITCTCCTTTGCTCACCTTTGCTTCCCAGCCTTCCCA	420
Sequenz_1	420	TCCCCCCACCGAAAGC AAATCATTCAACGACCCCCGACCCTCCGACGCAGGAGCCCCCC	479
Sequenz_2	15	TOOCCCACCGAAAGCAAATCATTCAACGACCCCCACCCCA	74
Sequenz_3	421	TOOCCCACCGAAAGC AAATCATTCAACGACCCCCGACCCTCCGACGGCAGGAGCCCCCC	480
Sequenz_1	480	GACCTCCCAGGCGGAC CGCCCTTCCTCCCCGCGCGGGGTTCCGGGCCCGGCGAGAGGGC	539
Sequenz_2 Sequenz_3	75 481		133
		THE PROPERTY OF THE PROPERTY O	540
Sequenz_1	540	GCGA ACAGCCGAGG CCATGGAGGTGACGGCGGACCAGCCGCGCTGGGTGAGCCACCAC	599
Sequenz_2 Sequenz_3	134 541		193
		- CATGOCGAGG CCATGGAGGTGACGGCGGACCAGCGGCGCGCTGGGTGAGCCACCAC	600
Sequenz_1	600	CACCCGCCGTGCTCA ACGGGCAGCACCCGGACACCACCCCGGGCCTCAGCCACTCC	659
Sequenz_2 Sequenz_3	194 601	ONCOCOGCO TO TO A ACCIGICACION CONTROL	253
		CHOCCCCCG GCTCA ACGGGCAGCACCCGGACACGCACCACCCGGGCCTCAGCCACTCC	660
Sequenz_1 Sequenz_2	660 254	TACATGGACGCGGCGC AGTACCCGCTGCCGGAGGAGGTGGATGTGCTTTTTAACATCGAC	719
Sequenz_3	661	THOSE GOLGCOCCIC ACTACCCCCCCCCCACCACCACCAMCMCCCCMMMMMM A CAMOCAC	313
Sequenz_1	720	- MAIN SANCECEGE AGTACCCGCTGCCGGAGGAGGTGGATGTGCTTTTTAACATCGAC	720
Sequenz_1 Sequenz_2	314	GGTCAAGGCAACCACG TCCCGCCCTACTACGGAAACTCGGTCAGGGCCACGGTGCAGAGG	779
Sequenz_3	721		373
Sequenz_1	780	OST CARGGCAACCACG TCCCGCCCTACTACGGAAACTCGGTCAGGGCCACGGTGCAGAGG	780
Sequenz_2	374	TACCCTCCGACCCACC ACGGGAGCCAGGTGTGCCGCCCGCCTCTGCTTCATGGATCCCTA	839
Sequenz_3	781	THE CONTROL ACCIONATION AND A MARKET AND A M	433
		TABOUT CONTROL ACGGGAGC CAGGTGTGC CGCCCCCCTCTGCTTCATGGATCCCTA	840
Sequenz_1 Sequenz_2	840	CCCTGGCTGGACGGCG GCAAAGCCCTGGGCAGCCACCACACCGCCTCCCCCTGGAATCTC	899
Sequenz_3	434	OUT GGCT GGACGGCGGCAAAGCCCCTGGGCAGCCACCACCACCACCACCACCACCACCACCACCAC	493
	841	hgd40	900
Sequenz_1	900	AGCCCCTT CONTROL AGENCY AND CALCATOCAL CACGGCTCCCCGGGGCCCCTCTCCGTCTACCCC	959
Sequenz_2 Sequenz_3	494	ASSESSED TO TO CARGA COTOCATOCACCACCACCACCACCACCACCACCACCACCACCACCAC	553
	901	**************************************	960
Sequenz_1	960	CCGGCCTCGTCCTCCT CCTTGTCGGGGGGCCACGCCAGCCCGCACCTCTTCACCTTCCCG	1010
Sequenz_2	554	CCGCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	1019 613
Sequenz_3	961	DOUBLE CONTROL	1020
Sequenz_1	1020	CCCACCCCGAAGG ACGTCTCCCCGGACCCATCGCTGTCCACCCCAGGCTCGGCCGGC	1079
Sequenz_2 Sequenz_3	614	TOWN COORDINATE ACCUTATION OF THE PROPERTY OF	673
pedaeus_2	1021	CCCACCCGCAAGG ACGTCTCCCCGGACCCATCGCTGTCCACCCCAGGCTCGGCCGGC	1080

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Sequenz_1		TCGGCCCGGCAGGACG AGAAAGAGTGCCTCAAGTACCAGGTGCCCCTGCCCGACAGCATC	
Sequenz_2			
Sequenz_3	1081	TCGGCCCGGCAGGACG AGAAAGAGTGCCTCAAGTACCAGGTGCCCCTGCCCGACAGCATG	733
Sequenz_1	1140		
Sequenz_2			1199
Sequenz_3			
		AAGCTGGAGTCGTCCC ACTCCCGTGGCAGCATGACCGCCCTGGGTGGAGCCTCCTCGTCG	1200
Sequenz_1		ACCCACCACCATCA CCACCTACCGCCCTACGTGCCCGAGTACAGCTCCGGACTCTTC	
Sequenz_2		THE TAX CONTRACT OF THE PROPERTY OF THE PROPER	
Sequenz_3	1201	ACCCACCACCCATCA CCACCTACCCGCCCTACGTGCCCGAGTACAGCTCCGGACTCTTC	853
Sequenz_1	1260		
Sequenz_2	854	CCCCCAGCAGCCTGC TGGGCGGCTCCCCCACCGGCTTCGGATGCAAGTCCAGGCCCAAG	1319
Sequenz_3	1261		
		CCCCCAGCAGCCTGC TGGGCGGCTCCCCACCGGCTTCGGATGCAAGTCCAGGCCCAAG	1320
Sequenz_1	1320	GCCCGGTCCAGCACAG AAGGCAGGGAGTGTGTGAACTGTGGGGCAACCTCGACCCCACTG	
Sequenz_2	914		
Sequenz_3	1321	GCCCGGTCCAGCACAG AAGGCAGGGAGTGTGTGAACTGTGGGGCAACCTCGACCCCACTG	970
Comione 1	1200		1380
Sequenz_1 Sequenz_2	1380 971	TGGCGGCGAGATGGCA CGGGACACTACCTGTGCAACGCCTGCGGGCTCTATCACAAAATG	1439
Sequenz_3	1381	TO TO TO THE PARTY OF THE PARTY	1030
4 0	1501	TGGCGGCGAGATGGCA CGGGACACTACCTGTGCAACGCCTGCGGGCTCTATCACAAAATG	1440
Sequenz_1	1440		-
Sequenz_2	1031	AACGGACAGAACCGGC CCCTCATTAAGCCCAAGCGAAGGCTGTCTGCAGCCAGGAGAGCA AACGGACAGAACCGGC CCCTCATTAAGCCCCAAGCGAAGGCTGTCTGCAGCCAGGAGAGACA AACGGACAGAACCGGC CCCTCATTAAGCCCCAAGCGAAGGCTGTCTGCAGCCAGGAGAGACA	1499
Sequenz_3	1441	AACGGACAGAACCGGC CCCTCATTAAGCCCAAGCGAGAGGCTGTCTGCAGCCAGGAGAGACA	1090
			1500
Sequenz_1 Sequenz_2	1500 1091	GGGACGTCCTGTGCGA ACTGTCAGACCACCACACACACTCTGGAGGAGGAATGCCAAT	1559
Sequenz_3	1501		1150
	1501	GGGACGTCCTGTGCGA ACTGTCAGACCACCACCACACTCTGGAGGAGGAATGCCAAT	1560
Sequenz_1	1560		
Sequenz_2	1151	GGGGACCCTGTCTGCA ATGCCTGTGGGCTCTACTACAAGCTTCACAATATTAACAGACCC GGGGACCCTGTCTGCA ATGCCTGTGGGCTCTACTACAAGCTTCACAATATTAACAGACCC GGGGACCCTGTCTGCA ATGCCTGTGGGCTCTACTACAAGCTTCACAATATTAACAGACCC	1619
Sequenz_3	1561	GGGGACCCTGTCTGCA ATGCCTGTGGGCTCTACTACAAGCTTCACAATATTAACAGACCC	1210 .
Sequenz_1	1620		1620
Sequenz_2	1211	CTGACTATGAAGAAGG AAGGCATCCAGACCAGAAAACCGAAAAATGTCTAGCAAATCCAAA	1679
Sequenz_3	1621		1270
		CTGACTATGAAGAAGGAAGGCATCCAGACCAGAAACCGAAAAATGTCTAGCAAATCCAAA	1680
Sequenz_1	1680	AAGTGCAAAAAAGTGCATGACTCACTGGAGGACTTCCCCCAAGAACAGCTCGTTTAACCCG	
Sequenz_2	1271		1739
Sequenz_3	1681	AAGTGCAAAAAAGTGCATGACTCACTGGAGGACTTCCCCAAGAACAGCTCGTTTAACCCG	1330 1740
Sequenz_1	1740		1740
Sequenz_2	1331	GCCGCCTCTCCAGAC ACATGTCCTCCCTGAGCCACATCTCGCCCTTCAGCCAC	1799
Sequenz_3	1741	GCCGCCTCTCCAGACACATGTCCTCCCTGAGCCACATCTCGCCCTTCAGCCACGCAGC GCCGCCCTCTCAGACACATGTCCTCCCTGAGCCACATCTCGCCCTTCAGCCACGCCAGC	1390
0			1800
Sequenz_1	1800	CACATGCTGACCACGC CCACGCCGATGCACCCGCCATCCAGCCTGTCCTTTGGACCACAC	1050
Sequenz_2 Sequenz_3	1391 1801		1859 1450
Dodacus_3	1001	CACATGCTGACCACGC CCACGCCGATGCACCCGCCATCCAGCCTGTCCTTTGGACCACAC	1860
Sequenz_1	1860		. 555
Sequenz_2	1451	CACCCCTCCAGCATGG TCACCGCCATGGGTTAGAGCCCTGCTCGATGCTCACAGGGCCCC	1919
Sequenz_3	1861	CACCCCTCCAGCATGG TCACCGCCATGGGTTAGAGCCCTGCTCGATGCTCACAGGGCCCC CACCCCTCCAGCATGG TCACCGCCATGGGTTAGAGCCCTGCTCGATGCTCACAGGGCCCC	1510
a.			1920
Sequenz_1	1920	CAGCGAGAGTCCCTGC AGTCCCTTTCGACTTGCATTTTTGCAGGAGCAGTATCATGAAGC	1070
Sequenz_2 Sequenz_3	1511 1921		1979 1570
20442112_3	1241	CAGCGAGAGTCCCTGC AGTCCCTTTCGACTTGCATTTTTGCAGGAGCAGTATCATGAAGC	1980
Sequenz_1	1980		. 200
Sequenz_2	1571	CTAAACGCGATGGATA TATGTTTTTGAAGGCAGAAAGCAAAATTATGTTTGCCACTTTGC	2039
Sequenz_3	1981	CTAAACGCGATGGATA TATGTTTTTGAAGGCAGAAAGCAAAATTATGTTTGCCACTTTGC CTAAACGCGATGGATA TATGTTTTTGAAGGCAGAAAGCAAAATTATGTTTGCCACTTTGC	1630
_			2040
Sequenz_1	2040	AAAGGAGCTCACTGTG GTGTCTGTGTTCCAACCACTGAATCTGGACCCCATCTGTGAATA	2000
Sequenz_2 Sequenz_3	1631 2041		2099 1690
J-44-115_J	2041	AAAGGAGCTCACTGTG GTGTCTGTGTTCCAACCACTGAATCTGGACCCCATCTGTGAATA	2100
			- 100

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•			
		•	
Sequenz_1	2100	AGCCATTCTGACTCAT ATCCCCTTATTTTATA	
Sequenz_2	1691	AGCCATTCTGACTCAT ATCCCCTATTTAACAGGGTCTCTAGTGCTGTGAAAAAAAA	2158
Sequenz_3			
		AGCCATTCTGACTCAT ATCCCCTATTTAACAGGGTCTCTAGTGCTGTGAAAAAAAA	2160
Sequenz_1		CTGAACATTGCATAT AACTTATATTGTAAGAAATACTGTACAATGACTTTATTGCATCT	
Sequenz_2			2218
Sequenz_3	2161	ECTGAACATTGCATAT AACTTATATTGTAAGAAATACTGTACAATGACTTTATTGCATCT	1810
		- THE THE TANGAATACTGTACAATGACTTTATTGCATCT	2220
Sequenz_1	2219	GGGTAGCTGTAAGGCA TGAAGGATGCCAAGAAGTTTAAGGAATATGGGAGAAATAGTGTG	
Sequenz_2	1811	GGGTAGCTGTAAGGCA TGAAGGATGCCAAGAAGTTTAAGGAATATGGGAGAAATAGTGTG GGGTAGCTGTAAGGCA TGAAGGATGCCAAGAAGTTTAAGGAATATGGGAGAAATAGTGTG	2278
Sequenz_3	2221	GGGTAGCTGTAAGGCA TGAAGGATGCCAAGAAGTTTAAGGAATATGGGAGAAATAGTGTG	1870
		THE SECOND CONTROL OF	2280
Sequenz_1	2279	GAAATTAAGAAGAAAC TAGGTCTGATATTCAAATGGACAAACTGCCAGTTTTGTTTCCTT	
Sequenz_2	1871	GAAATTAAGAAGAAC TAGGTCTGATATTCAAATGGACAAACTGCCAGTTTTGTTTCCTT GAAATTAAGAAGAAC TAGGTCTGATATTCAAATGGACAAACTGCCAGTTTTGTTTCCTT	2338
Sequenz_3	2281	GAAATTAAGAAGAAAC TAGGTCTGATATTCAAATGGACAAACTGCCAGTTTTGTTTCCTT	1930
			2340
Sequenz_1	2339	TCACTGGCCACAGTTG TTTGATGCATTAAAAGAAAATAAAAAAAAAGAGAAAAAGAGAAAAAG	
Sequenz_2	1931	TCACTGGCCACAGTTG TTTGATGCATTAAAAAAAAAAAA	2398
Sequenz_3	2341	TCACTGGCCACAGTTGTTTGATGCATTAAAAAAATAAAAAAAA	1990
		TCACTGGCCACAGTTG TTTGATGCATTAAAAGAAAATAAAAAAAAGAGAAAAAG GAGAAAAG	2399
Sequenz_1	2399	A	
Sequenz_2	1991	AAAAAAAAAGCTGTTGGCCGAATCATTTGTTCAAAGCTGTTGGCCCTCTGCAAA	2399
Sequenz_3	2400	AAAAAAAAGAAAAA GTTCTAGCCCAATCATTTGTTCAAAGCTGTTGGCCCTCTGCAAA	2050
		AAAAAAAAAGAAAAAA GTTGTAGGCGAATCATTTGTTCAAAGCTGTTGGCC-TCTGCAAA	2458
Sequenz_1	***		
Sequenz_2	2051	GGAAATACCAGTTCTG GGCAATCAGTGTTACCGTTCACCAGTTGCCATTGAGGGTTTCAG	****
Sequenz_3	2459	GGAAATACCAGTTCTG GGCAATCAGTGTTACCGTTCACCAGTTGCCATTGAGGGTTTCAG	2110
		TO STATE OF THE CONTRACT OF TH	2518
Sequenz_1	***		
Sequenz_2	2111	AGAGCCTTTTTCTAGGCCTACATGCTTTGTGAACAAGTCCCTGTAATTGTTGTTTGT	****
Sequenz_3	2519	AGAGCCTTTTTCTAGG CCTACATGCTTTGTGAACAAGTCCCTGTAATTGTTGTTTGT	2170
		TOTAL CONTROL OF THE STATE OF T	2578
Sequenz_1	****		
Sequenz_2	2171	TATAATTCAAAGCACC AAAATAAGAAAAGATGTAGATTTATTTCATCATATTATACAGAC	****
Sequenz_3	2579	TATAATTCAAAGCACC AAAATAAGAAAAGATGTAGATTATTTCATCATATTATACAGAC	2230
Sequenz_1	****	THE TAXABLE THE TAXABLE TO THE TAXAB	2638
Sequenz_2	. 2231		****
Sequenz_3	2639	CGAACTGTTGTATAAA TTTATTTACTGCTAGTCTTAAGAACTGCTTTCTTTCGTTTGTTT	2290
bequeitz_3	2039	CGAACTGTTGTATAAA TTTATTTACTGCTAGTCTTAAGAACTGCTTTCTTTCGTTTGTTT	2698
Sequenz_1	****	•	2090
Sequenz_2	2291	CTTTTC: Nm2 mmm con	****
Sequenz_3	2699	GTTTCAATATTTTCCTTCTCTCAATTTTCGGTTGAATAAACTAGATTACATTCAGTTG	2350
4	2099	GTTTCAATATTTTCCT TCTCTCTCAATTTTCGG	2731
Sequenz_1	****		,
Sequenz_2	2351	GCAAAAAAAAAA	****
Sequenz_3	****		2365
• -			****

AGGGAGAGCGAGCAGCGAGCAATCTGACCGAGCAGGTCGTAC GCCGCCGCCTCCTCCTCTCTCTCTCTCTCTCCTACCCAGGTGACCCGAGG AGGGACTCCGCCTCCGAGCGGCTGAGGACCCCGGTGCAGAGGAGCCTGGC TCGCAGAATTGCAGAGTCGTCGCCCCTTTTTACAACCTGGTCCCGTTTTA TTCTGCCATACCCAGTTTTTGGATTTTTGTCTTCCCCTTCTTCTCTTTGC TAAACGACCCCTCCAAGATAATTTTTAAAAAACCTTCTCCTTTGCTCACC TTTGCTTCCCAGCCTTCCCATCCCCCACCGAAAGCAAATCATTCAACGA CCCCGACCTCCGACGCAGGAGCCCCCGACCTCCCAGGCGGACCGCC CCGAGGCCATGGAGGTGACGGCGGGACCAGCCGCGCTGGGTGAGCCACCAC CACCCGCCGTGCTCAACGGGCAGCACCGGACACGCACCACCGGGCCT CAGCCACTCCTACATGGACGCGGCGCAGTACCCGCTGCCGGAGGAGGTGG ATGTGCTTTTTAACATCGACGGTCAAGGCAACCACGTCCCGCCCTACTAC GGAAACTCGGTCAGGGCCACGGTGCAGAGGTACCCTCCGACCCACCACGG ACGGCGGCAAAGCCCTGGGCAGCCACACACCGCCTCCCCCTGGAATCTC AGCCCCTTCTCCAAGACGTCCATCCACCACGGCTCCCCGGGGCCCCTCTC CGTCTACCCCCGGCCTCGTCCTCCTTGTCGGGGGGCCACGCCAGCC CGCACCTCTTCACCTTCCCGCCCACCCCGCCGAAGGACGTCTCCCCGGAC CCATCGCTGTCCACCCCAGGCTCGGCCGGCTCGGCCGGCAGGACGAGAA AGAGTGCCTCAAGTACCAGGTGCCCCTGCCCGACAGCATGAAGCTGGAGT CGTCCCACTCCCGTGGCAGCATGACCGCCCTGGGTGGAGCCTCCTCGTCG ACCCACCACCCATCACCACCTACCCGCCCTACGTGCCCGAGTACAGCTC CGGACTCTTCCCCCCAGCAGCCTGCTGGGCGGCTCCCCCACCGGCTTCG GATGCAAGTCCAGGCCCAAGGCCCGGTCCAGCACAGAAGGCAGGGAGTGT $\mathtt{GTGAACTGTGGGGCAACCTCGACCCACT}_{\mathtt{GT}\mathtt{GGCGGC}\mathtt{GA}\mathtt{GATGGCACGGG}}$ ACACTACCTGTGCAACGCCTGCGGGCTCTAACACAAAAAAGGAACGGACAGA ACCGGCCCCTCATTAAGCCCAAGCGAAGGCTETCTGCAGCCAGGAGAGCA GGGACECCTEEGCGAACTEECAGACCACCACACCACACTCTGGAGGAG GAMEGCCAMEGGGACCCTEECTGCAMEGCCTEEGGGCTCTACTACAAGC TTCACAMATTAACAGACCCCTGACTATGAAGAAGGAAGGCATCCAGACC AGAAACCGAAAAAA CTAGCAAAAAAAA GTGCATGA CTCACTGGAGGACTTCCCCAAGAACAGCTC CCAGACAC CACAGGCTGACCACGCCACGCCGGGGGCCAGCCTGCCTTTTGGACCACCACCCCTCCAGCGGGGCTAGAGCCCTGCAGGGCTAGAGCCCTGCAGGGCTACACACGCCCAGCGAGAGCCCCTGCAGCCCTTTCGACT TGCATTTTGCAGGAGCAGTATCTTGCAAACGCGATGGATATTATC #TTTTGAAGGCAGAAAGCAAAGTT#GCTTGCCACTTTGCAAAGGAGCTC ACT GENERAL CT GENERAL CTGGACCCC CTGGACCCC CTG ATTCAA GGACAAACTGCCA TTT TTTCCTTTCACTGGCCA AAAAAAAAAAAAAAATTGTAGGCGATTTTTCAAAAGCTGTTGGCCTCTGCAAAGGAAATACCAGTTCTGGGCAAAGGAAATACCAGTTCTGGGCAAAGCAAAGCTGTTCACCAGTTCACCAGTTCACAAAGCTTTTTCTAGGCCTACAGGCCTTTTTGGA EAAMTTETTACTGCTACTCTTAAGAACTGCTTTCTTTCETTTCTTT TTCAMETTTCCTTCTCTCAMETTTC

Fig. 4 A

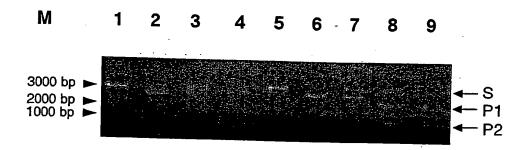


Fig. 5

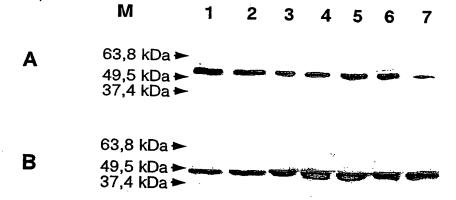


Fig. 6

Fig_. 7

Name	DNAzyme Sequenz
td1	TGGCTTCTAggctagctacaacgaGCCCTCGTC
td2	GGGCTCTGAggctagctacaacgaGCCTGGCTT
td3	GGGACCCCAggctagctacaacgaCGGAGCCCG
td4	GGTGGGGAggctagctacaacgaCCCACCGGA
td5	GGCGGGGAggctagctacaacgaCCGAGGGCC
td6	GGGCTGGGAggctagctacaacgaGGGCAGGGA
td7	CGTCGAGGAggctagctacaacgaCCGCCCCTC
td8	GGGCTGGCAggctagctacaacgaCTTCCCGTA
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td45	CACACTGCAggctagctacaacgaCCACTTGCC
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Name	DNAzyme Sequenz
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TD50	CCGGGTGGAggctagctacaacgaGTACAGGCG
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TD53	TTTCCCAAAggctagctacaacgaGAAACTTCC
TD54	ATTGTTGGAggctagctacaacgaGCCCCCTTG
TD55	TGGGTCACAggctagctacaacgaTGTTGGACG
TD56	TCTGGGTCAggctagctacaacgaATTGTTGGA
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TD71	AGGCAGTCAggctagctacaacgaGGCAATGAA
TD72	ATCTCGGCAggctagctacaacgaTCTGGTAGG
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TD75	GGGTTATTAggctagctacaacgaCAATTTTCA
TD76	AAGGGGTTAggctagctacaacgaTATCAATTT
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Multiple Sequenz Alignments T-bet

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Seq_1	2461		
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Seq_2			****
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Seq_1	2581	ААААААА	
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Fig. 8A

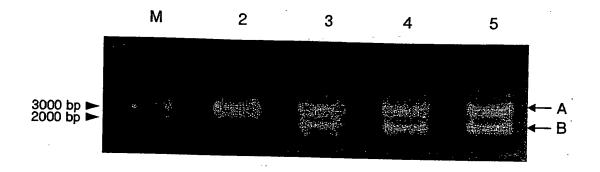


Fig. 9

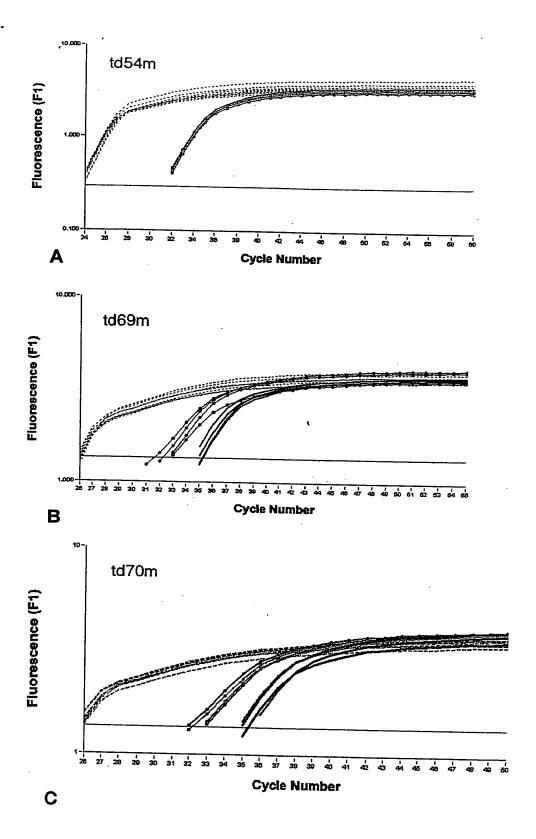


Fig. 10

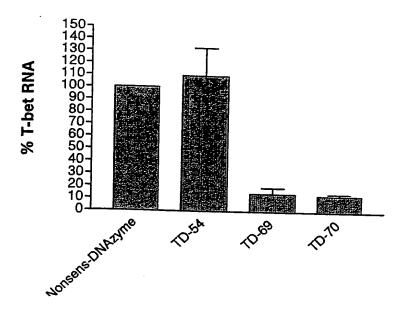


Fig. 11